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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,435	08/23/2006	Paul Fraser	090931-380575	1436
27155 McCarthy Tetra	7590 11/08/201 nult LLP	EXAMINER		
Box 48		BALLARD, KIMBERLY		
Suite #4700 Toronto Dominion Bank Tower TORONTO, ON M5K 1E6			ART UNIT	PAPER NUMBER
CANADA		1649		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) Applicant(s) Applicant(s) Interest Interest			L A II N	A				
Examiner Kimberty Ballard 1649	•		Application No.					
Claim(s)			10/590,435	FRASER, PAUL				
			Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Exclusions of time may be available under the provisions of 35° CFR 1.50(a), in no event, however, may a reply be timely filed of the communication of the provision of 35° CFR 1.50(a), in no event, however, may a reply be timely filed or 1 th Opported for pays be available under the provision of 35° CFR 1.50(a), in no event, however, may a reply be timely filed or 1 the Opported for pays with the state of the communication, even if throly filed, may reduce any common provision them in the sall of a communication, even if throly filed, may reduce any common provision them indigent mail. So 37° CFR 1.70(b). Status 1) ☑ Responsive to communication(s) filed on 14 October 2010. 2a) ☑ This action is FINAL. 2b) ☑ This action is non-filinal. 3) ☑ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1-3,9-11,13-16 and 62-64 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5] ☑ Claim(s) 1-3,9-11,13-16 and 62-64 is/are rejected. 7) ☑ Claim(s) is/are allowed. 6) ☑ Claim(s) is/are objected to. 8) ☑ Claim(s) is/are objected to. 9) ☑ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on is/are: a) ☑ accepted or b) ☑ objected to by the Examiner. Application Papers 9) ☑ The specification is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12 ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☑ Some * C) ☐ None of: 1. ☐ Certified copies of the priority documents have been received in Application No 1. ☐ Certified copies of the priority documents have been received in Application no			-					
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Ederations of time may be available used the provision of 37 cFR 1.1360, in the event, however, may a regly be fittedy filled under 50 (8) MONTIS from the mailing date of this communication. Failunts or provy which the set or condeded prender may wisk by stables, cause the application to become ABANDOFIC 38 U.S.C. § 133). Any reply received by the Cifice later than three months after the mailing date of this communication, even if sinely filled, may reduce any senand patient term adjustment, see 37 CFR 1.74(b). Status 1) □ Responsive to communication(s) filed on 14 October 2010. 2a) □ This action is FINAL. 2b) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-3.9-11.13-16 and 62-64 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are objected to. 9) □ The specification is objected to by the Examiner. 7) □ Claim(s) is/are objected to by the Examiner. 4pplication Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Application Papers 9) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a) (d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received in Application No. 3. □ Copies of the certified copies of the priority documents have been received in Application No. 4. □ Certified copies of the priority documents have been received in Application			ears on the cover sheet with the c	orrespondence address				
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DETAILED ACTION

Status of Application, Amendments, and/or Claims

In view of Applicant's after-final amendments and response filed October 14,
 2010, the finality of the previous office action is withdrawn.

2. Claims 1, 3, 9, 11 and 62 have been amended, claims 32-35, 40-50 and 57-61 have been canceled, and new claim 64 has been added as requested in the after-final amendment filed October 14, 2010. Following the amendment, claims 1-3, 9-11, 13-16 and 62-64 are pending and under examination in the current office action.

Withdrawn Claim Rejections

- 3. The rejection of claims 1-3, 9-11, 13-16 and 62-63 under 35 USC 102(b) as being anticipated by US 2001/0119926 to Fraser, is withdrawn in view of Applicant's amendments to the claims. Fraser does not teach or reasonably suggest a tripeptide consisting of ANX or ANF.
- 4. The rejection of claims 1 and 13-15 under 35 USC 102(b) as being anticipated by US 4,426,324 to Meienhofer, is withdrawn in view of Applicant's amendments to the claims.
- 5. The rejection of claims 1 and 13-15 under 35 USC 102(e) as being anticipated by US 7,056,889 to Villanueva et al., is withdrawn in view of Applicant's amendments to the claims.

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New Claim Objections and Rejections

Claim Objections

- 6. Claim 9 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. In the instant case, as amended claim 9 now recites the same limitations that are already present in independent claim 1.
- 7. Applicant is advised that should claims 1-3, 15 and 64 be found allowable, claims 9-11, 16, 62 and 63 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims

are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 1-3, 9-11, 13-16 and 62-64 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-13 of copending Application No. 12/905,773. Although the conflicting claims are not identical, they are not patentably distinct from each other because in each case the claims recite an antifibrillogenic agent consisting of peptide ANX, wherein X is any

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amino acid except cysteine, or wherein the peptide is ANF, and compositions thereof.

Therefore, the claims of the '773 application render obvious the current claims.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 11. Claims 1, 9 and 13-16 are rejected under 35 U.S.C. 102(e) as being anticipated by US 2008/0090770 A1 by Belmares et al.

Belmares et al. disclose peptide agents of the formula X¹-aa²-aa¹-aa⁰, wherein X¹ may be 0 amino acids and residues aa²-aa¹-aa⁰ may be ANL (SEQ ID NO: 20) (see [0073]). Therefore, Belmares teaches a peptide consisting of ANL, which meets the limitation of a peptide consisting of ANX wherein X is any amino acid except cysteine. Because the peptide ANL meets the structural limitations of claim 1, it would be expected to inherently possess antifibrillogenic and/or cytoprotective activities as recited in the claims. A chemical composition and its properties are inseparable (*In re Papesch*, 315 F.2d 381, 137 USPQ 43 (CCPA 1963)), as are their processes and yields (*In re*)

Von Schickh, 362 F.2d 821, 150 USPQ 300 (CCPA 1966)). Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

Belmares et al. also teach that the peptides of the invention may be formulated as pharmaceutical compositions for administration to a patient, which would include a pharmaceutically acceptable carrier (see [0110], [0113] and [0115]), thus addressing present claim 15. Accordingly, the teachings of Belmares et al. anticipate the presently recited invention of claims 1, 9 and 13-16.

12. Claims 1-3, 9-11, 13-16 and 62-64 are rejected under 35 U.S.C. 102(e) as being anticipated by US 2005/0020809 A1 by Gazit.

Gazit teaches a peptide sequence of ANFAV (SEQ ID NOs: 126 and 127), wherein the peptide is at least 2 and no more than 15 amino acid residues in length (see pp. 53-54, and claim 24 at p. 54). Gazit further discloses that the peptide is at least 3 amino acid residues in length (see claim 21 at p. 54), and is comprised within a pharmaceutical composition (see claim 68 at p. 55). Taken together, these teachings provide for a peptide derived from ANFAV which is 3 amino acids in length, and would include the peptide consisting of ANF, and pharmaceutical compositions thereof. See MPEP § 2131, which states:

When the compound is not specifically named, but instead it is necessary to select portions of teachings within a reference and combine them, e.g., select various substituents from a list of alternatives given for placement at specific sites on a generic chemical formula to arrive at a specific composition, anticipation can only be found if the

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classes of substituents are sufficiently limited or well delineated. *Ex parte A*, 17 USPQ2d 1716 (Bd. Pat. App. & Inter. 1990). If one of ordinary skill in the art is able to "at once envisage" the specific compound within the generic chemical formula, the compound is anticipated. One of ordinary skill in the art must be able to draw the structural formula or write the name of each of the compounds included in the generic formula before any of the compounds can be "at once envisaged." One may look to the preferred embodiments to determine which compounds can be anticipated. *In re Petering*, 301 F.2d 676, 133 USPQ 275 (CCPA 1962).

In *In re Schauman*, 572 F.2d 312, 197 USPQ 5 (CCPA 1978), claims to a specific compound were anticipated because the prior art taught a generic formula embracing a limited number of compounds closely related to each other in structure and the properties possessed by the compound class of the prior art was that disclosed for the claimed compound. The broad generic formula seemed to describe an infinite number of compounds but claim 1 was limited to a structure with only one variable substituent R. This substituent was limited to low alkyl radicals. One of ordinary skill in the art would at once envisage the subject matter within claim 1 of the reference.

Additionally, Gazit indicates that the peptides can be used in the treatment of an amyloid associated disease (see claims 34 and 43 at pp. 54-55), which would evidence their suitability as antifibrillogenic and/or cytoprotective agents. Therefore, one of ordinary skill in the art would be able to "at once envisage" the limited number of peptides derived from the peptide ANFAV that are at least 3 amino acids (i.e., ANF, NFA, FAV, ANFA, NFAV), and thus the teaching of Gazit are anticipatory for the presently recited invention of claims 1-3, 9-11, 13-16 and 62-64.

Conclusion

13. No claims are allowed.

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly Ballard whose telephone number is 571-272-2150. The examiner can normally be reached on Monday-Friday 8:30 AM - 5 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Stucker can be reached on 571-272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kimberly Ballard Art Unit 1649

/Daniel E Kolker/ Primary Examiner, Art Unit 1649 November 7, 2010